

Review Form 3

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_125612
Title of the Manuscript:	Effect of particle Size and Concentration of ZnO Nanoparticles on Growth, Yield and Seedling parameters in Buckwheat (<i>Fagopyrum esculentum</i> L.)
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	Application of ZnO nanoparticles in plants now a days growing agricultural nanotechnology due to influence in growth and yield parameter of different vegetable crops. It's a vast area of understanding how particle size influence growth and yield. It's a appreciable farming practice related to improving crop productivity. However it's a considerable approaches to saw how the ZnO nanoparticles used as a long term environmental effects.	
Is the title of the article suitable? (If not please suggest an alternative title)	Its good title for the article. No need for change.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Abstract was described elaborately with proper evidence of outcomes. No need for addition or deletion. Abstract was nicely written to understand the outcomes of the research	
Are subsections and structure of the manuscript appropriate?	Subsections was properly maintained but methods that are used was not properly written or cited. <ul style="list-style-type: none"> Šebesta, M., Kolenčík, M., Sunil, B. R., Illa, R., Mosnáček, J., Ingle, A. P., & Urík, M. (2021). Field application of ZnO and TiO2 nanoparticles on agricultural plants. <i>Agronomy</i>, 11(11), 2281. Kolenčík, M., Ernst, D., Komár, M., Urík, M., Šebesta, M., Ďurišová, L., ... & Aydın, E. (2022). Effects of foliar application of ZnO nanoparticles on lentil production, stress level and nutritional seed quality under field conditions. <i>Nanomaterials</i>, 12(3), 310. Ahmed, R., Uddin, M. K., Quddus, M. A., Samad, M. Y. A., Hossain, M. M., & Haque, A. N. A. (2023). Impact of foliar application of zinc and zinc oxide nanoparticles on growth, yield, nutrient uptake and quality of tomato. <i>Horticulturae</i>, 9(2), 162. Srivastav, A., Ganjewala, D., Singhal, R. K., Rajput, V. D., Minkina, T., Voloshina, M., ... & Shrivastava, M. (2021). Effect of ZnO nanoparticles on growth and biochemical responses of wheat and maize. <i>Plants</i>, 10(12), 2556. Thounaojam, T. C., Meetei, T. T., Devi, Y. B., Panda, S. K., & Upadhyaya, H. (2021). Zinc oxide nanoparticles (ZnO-NPs): a promising nanoparticle in renovating plant science. <i>Acta Physiologiae Plantarum</i>, 43, 1-21. 	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	This manuscript effectively illustrates the scientific soundness and historical understanding necessary for the sustainable advancement of society. The future prospects of biodegradable mulches and their use in agriculture are also covered. The findings' validity is increased by the review's use of suitable experimental designs. The scientific community appreciated the presentation's overall clarity and the depth of the study. Further study can be done on how it affects the environment in application of ZnO nanoparticles.	

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<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>-</p>	<p>References given was sufficeient but not recent one. Many more references are mismatch need for proper revision.</p> <p>Semida, W. M., Abdelkhalik, A., Mohamed, G. F., Abd El-Mageed, T. A., Abd El-Mageed, S. A., Rady, M. M., & Ali, E. F. (2021). Foliar application of zinc oxide nanoparticles promotes drought stress tolerance in eggplant (<i>Solanum melongena</i> L.). <i>Plants</i>, 10(2), 421.</p>	
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes, quality of the manuscript was good but need for major revision.</p>	
<p>Optional/General comments</p>	<p>Major revision needed. Recent citation was important for a manuscript. Many more methods were not cited. Very old citation was used in introduction which will be corrected. Also add recent citations in discussion part.</p> <p>Write proper details about on methods which was used for biochemical parameters. Mismatch in references and cited authors</p>	

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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